



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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ALUMINUM ELECTROLYTIC CAPACITORS

UBC

Chip Type, High Temperature Range, Vibration Resistance



- Highly dependable reliability withstanding load life of 1000 hours at +150°C.
- Suited for automobile electronics where heavy duty services are indispensable.
- Compliant to the RoHS directive (2011/65/EU).

UBC

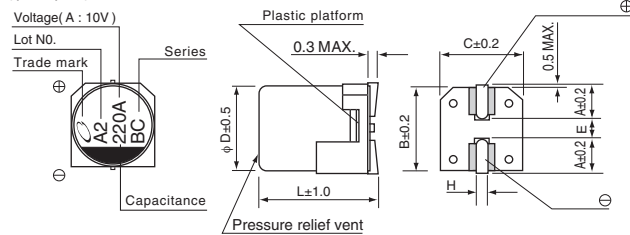


Specifications

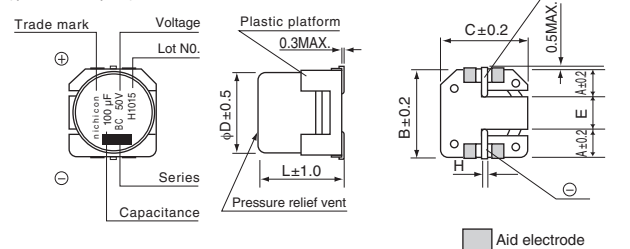
Item	Performance Characteristics							
Category Temperature Range	-40 to +150°C (φ8 to 10), -55 to +150°C (φ 12.5 to 18)							
Rated Voltage Range	10 to 50V							
Rated Capacitance Range	33 to 3300μF							
Capacitance Tolerance	±20% at 120Hz, 20°C							
Leakage Current	After 1 minute's application of rated voltage, leakage current is not more than 0.03CV or 4 (μA), whichever is greater.							
Tangent of loss angle (tan δ)	Rated voltage (V)	10	16	25	35	50	120Hz 20°C	
	tan δ (MAX.)	φ8, φ10	0.26	0.20	0.16	0.14		0.14
Stability at Low Temperature	Rated voltage (V)	10	16	25	35	50	120Hz	
	Impedance ratio Z-40°C / Z+20°C (MAX.)	φ8, φ10	10	8	6	4		4
Endurance	The specifications listed at right shall be met when the capacitors are restored to 20°C after the rated voltage is applied for 1000 hours at 150°C.						Capacitance change	Within ±30% of the initial capacitance value
							tan δ	300% or less than the initial specified value
Shelf Life	After storing the capacitors under no load at 150°C for 1000 hours and then performing voltage treatment based on JIS C 5101-4 clause 4.1 at 20°C, they shall meet the specified values for the endurance characteristics listed above.						Leakage current	Less than or equal to the initial specified value
Marking	Black print on the case top.							

Chip Type

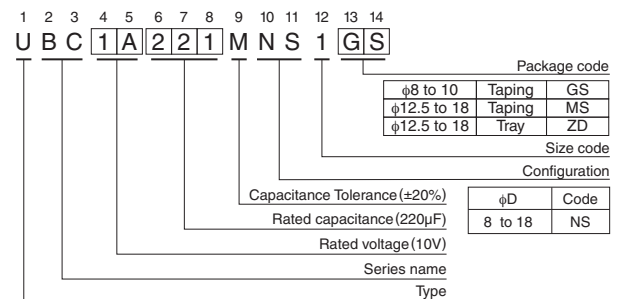
(φ8, φ10)



(φ12.5 to φ18)



Type numbering system (Example : 10V 220μF)



	(mm)				
φD	8	10	12.5	16	18
A	2.9	3.2	4.8	5.4	6.4
B	8.3	10.3	13.6	17.1	19.1
C	8.3	10.3	13.6	17.1	19.1
E	3.1	4.5	4.0	6.3	6.3
L	10	10	13.5	16.5, 21.5	21.5
H	1.1 to 1.5	1.1 to 1.5	1.0 to 1.4	1.0 to 1.4	1.0 to 1.4

Dimensions

Cap. (μF)	V	10		16		25		35		50	
		Code	1A	1C	1E	1V	1H	Case size φD × L (mm)	Rated ripple		
33	330									8 × 10	70
47	470									10 × 10	100
100	101			8 × 10	110	8 × 10	110	8 × 10	80	12.5 × 13.5	420
220	221	8 × 10	110	10 × 10	150	10 × 10	150	12.5 × 13.5	550	16 × 16.5	550
330	331	10 × 10	150			12.5 × 13.5	650	12.5 × 13.5	650	16 × 21.5	650
470	471			12.5 × 13.5	750	12.5 × 13.5	700	16 × 16.5	750	16 × 21.5	850
680	681	12.5 × 13.5	800	12.5 × 13.5	800	16 × 16.5	800	16 × 21.5	950	18 × 21.5	1100
1000	102	12.5 × 13.5	900	16 × 16.5	850	16 × 21.5	1000	18 × 21.5	1150		
2200	222	18 × 21.5	1350	18 × 21.5	1350						
3300	332	18 × 21.5	1400								

Rated ripple current (mArms) at 150°C 100kHz

Frequency coefficient of rated ripple current

Frequency	120 Hz	300 Hz	1 kHz	10kHz or more
Coefficient	0.67	0.79	0.91	1.00

- Taping specifications are given in page 23.
- Recommended land size, soldering by reflow are given in page 18, 19.
- Please refer to page 3 for the minimum order quantity.